

Claims

1. Stand-up bag of a heat-sealable or weldable plastic film for containing in particular flowable or pourable products and comprising:

- 5 - two opposing side walls (1, 2) sealed together along lateral edges thereof by means of side seams (5, 6);
- an inwardly folded bottom wall (4) extending between the lower portions of the side walls (1, 2) and sealed to the respective side walls (1, 2) along transverse bottom seams (7, 8) and along bottom side seams; and
- 10 - an inwardly folded top wall (3) extending between the upper portions of the side walls (1, 2) and connected to the respective side walls (1, 2) along transverse top connections (11, 12) and sealed to the respective side walls (1, 2) along top side seams,

characterised in that at least one of the transverse connections between the top wall (3) and the side walls is a heat-sealed peelable connection (12, 32, 42, 52) provided between an upper edge portion (16, 36) of the top wall (3) and an upper edge portion (15) of the adjacent side wall (2).

2. Stand-up bag according to claim 1, characterised in that the upper edge portions (16, 36; 15) of the top wall (3) and of the side walls (2) extends 20 beyond the transverse peelable connection (12, 32, 42, 52) to form gripping members.

3. Stand-up bag according to claim 1 or 2, characterised in that the peelable connection (12) comprises a film strip (17) arranged between the upper edge portions (16, 15) of the top wall (3) and the side wall (2), said film strip being firmly

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(non-peelably) heat-sealed to one of the edge portions, preferably to the edge portion of the top wall (3), the strip (17) having a first surface (18) of a sealing medium corresponding substantially to the sealing medium of the adjacent bag wall (3), and heat-sealed peelably to the second edge portion, preferably the edge portion (15) of the side wall (2), the strip (17) having a second surface (20) of a sealing medium heat-sealing peelably to the sealing medium of the adjacent bag wall.

4. Stand-up bag according to claim 3, and wherein the inner sealing medium of the bag walls is made substantially from polyethylene (PE), characterised in that the first outer sealing medium layer (18) of the film strip (17) comprises a mixture of PE and polybutylene.

5. Stand-up bag according to claim 1 or 2, characterised in that the peelable connection (32) comprises a film strip (37) arranged between the upper edges (16,15) of the top wall (3) and the side wall (2) and having a first and a second outer sealing medium layer (28,29) with which it is firmly (non-peelably) heat-sealed to the respective edge portions (16,15) and further having an intermediate layer (30) peelably connected to at least one of the outer sealing medium layers having a tear resistance weaker than the peel strength between the intermediate layer (30) and the said sealing medium layer.

6. Stand-up bag according to claim 5, characterised in that the intermediate layer (30) is a pressure-sensitive adhesive.

7. Stand-up bag according to claim 1 or 2, characterised in that the peelable connection (42) comprises a peelable strip of the hot-melt type applied to at least one of the two mutually facing surfaces (19,20) of the upper edge portions (16,15) of the top wall (3) and the side wall (2).

25 8. Stand-up bag according to one or more of the preceding claims,

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c h a r a c t e r i s e d in that above the peelable connection (42) the upper edge portion (53) of the top wall is folded down to abut the outer face of the adjacent side wall (2).

9. Stand-up bag according to one or more of the claims 1 to 8,
- 5 c h a r a c t e r i s e d in that above the peelable connection (42) both the upper edge portions (60) of the top wall (3) and the upper edge portions (58) of the adjacent side wall (2) are folded down onto the adjacent side wall (2).
10. Stand-up bag according to claim 1 or 2, c h a r a c t e r i s e d in that in the area of the peelable connection (52) the upper edge portion (36) of the side wall or
10 top wall (3) is folded down for abutment inner face to inner face and that the wall (3) with the folded-down edge portion (36) has an outer sealing medium layer heat-sealing peelably to the inner sealing medium layer (20) of the other wall (2).

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